

HOUSING DEVELOPMENT, LADY EDITH DRIVE SCARBOROUGH, YORKSHIRE, UNITED KINGDOM

Reinforced Soil Walls and Slope Reinforcement

Problem

A new housing development has been built at Lady Edith's, Scarborough. The 49 houses for rent and shared ownership were on a sloping site with poor ground conditions.

Termrim Construction wanted to form two-level platforms to maximise space for the housing plots on the compact development site.

Solution

Maccaferri proposed the use of a range of solutions to suit the topography, geotechnics of the site and the aesthetics needed; MacWall - segmental blockwork wall with reinforced soil backfill between the houses Green Terramesh - reinforced soil system with a 70' vegetating face for the perimeter of the site and blend in with the surrounding natural environment Gabions - other areas where space for retaining structures was tight MacWall comprises a reinforced earth structure finished with a dry-laid segmental block facing to create a 4° from the vertical structure. ParaGrid reinforcing geogrid is sandwiched between courses of the block, then covered with compacted structural fill to create a monolithic structure.

In this development, it was used between plots to maximise garden space. The "stone cut" finish offers a sharp and more natural-looking finish than traditional masonry and complements the construction methods typically used in this area.

Green Terramesh is a BBA HAPAS-certified, reinforced soil system that provides a vegetated finish. This softer aesthetic lends itself well to infrastructure, developments, SuDS and landscape features, providing biodiversity and environmental benefits in a structure with 120-year design life. The structure enabled the plots to extend right to the site boundary.

Client: Yorkshire Housing

Designer / Consultant: Maccaferri Ltd

Contractor: Termrim Construction

Products used (Qty.)

- Gabions	42m3
- Macwall	264m2
- Terramesh	108m2

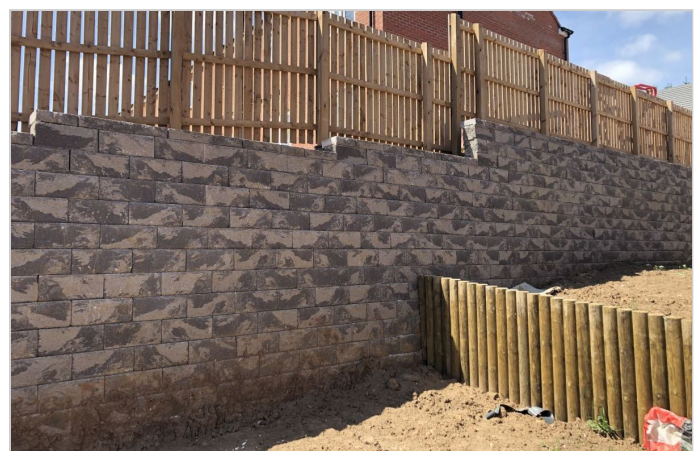
Date of construction: 04/2021 - 06/2021

[Google Maps](#)

[Google Earth](#)



Green Terramesh in the early stages of vegetating



MacWall provides sharp, clean lines between plots



Gabions with hand stacked "dry stone wall" finish